

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P488337

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-50-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P488337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-12-2-INS-A12125-LD4-1LO-50-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

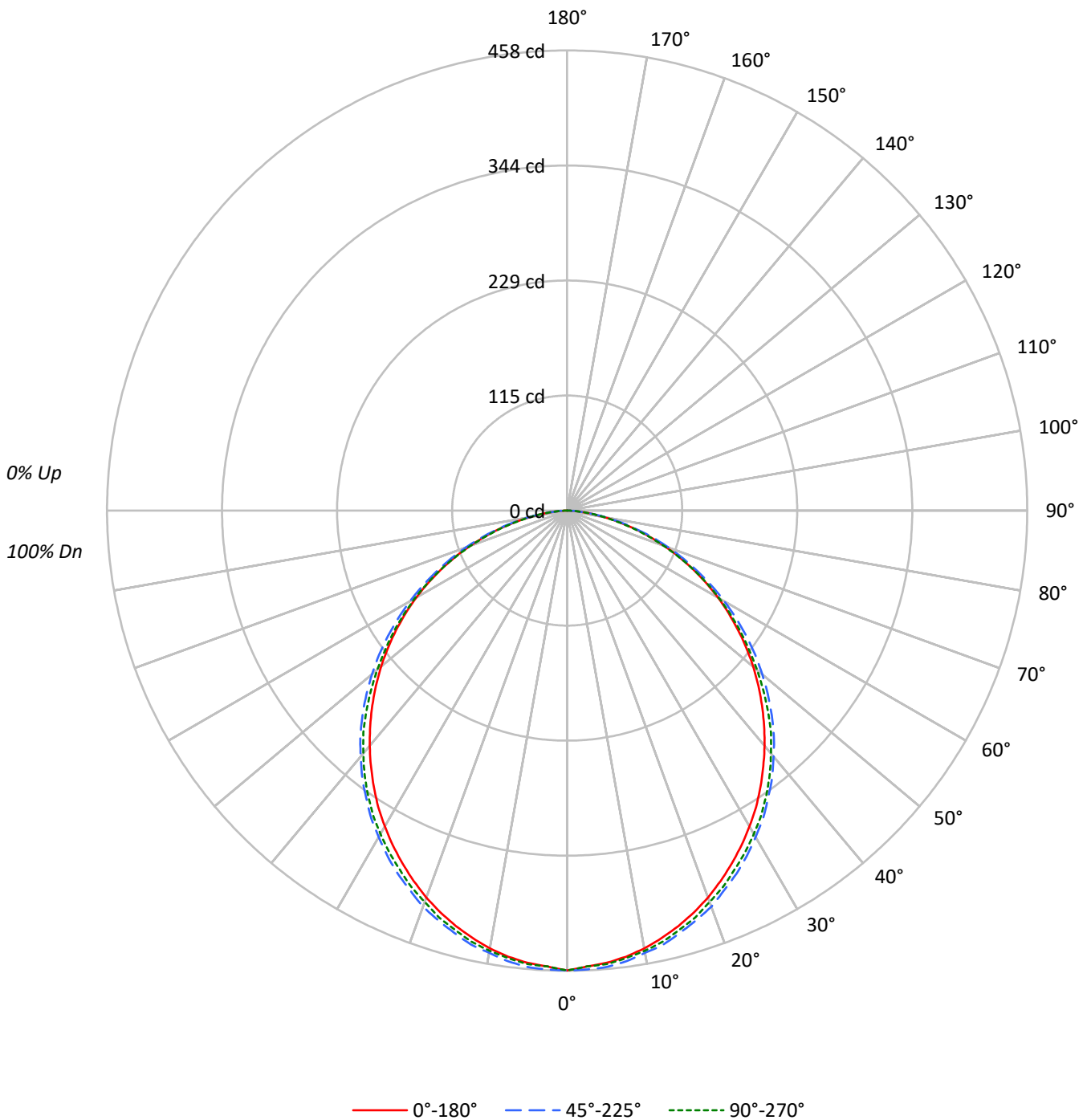
Lumens per Lamp: N/A
Luminaire Lumens: 1203.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2463	2463	2463
5°	2441	2464	2448
10°	2418	2443	2431
15°	2385	2423	2406
20°	2347	2403	2374
25°	2302	2368	2341
30°	2255	2332	2310
35°	2204	2292	2271
40°	2147	2246	2217
45°	2087	2192	2151
50°	2024	2122	2066
55°	1951	2042	1979
60°	1868	1945	1885
65°	1760	1827	1761
70°	1619	1685	1602
75°	1426	1491	1404
80°	1159	1209	1147
85°	809	858	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	3.6
10°-20°	122.2	10.2
20°-30°	182.2	15.1
30°-40°	215.9	17.9
40°-50°	218.5	18.2
50°-60°	190.8	15.9
60°-70°	139.4	11.6
70°-80°	74.2	6.2
80°-90°	17.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	347.5	28.9
0°-40°	563.4	46.8
0°-60°	972.6	80.8
0°-90°	1203.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	452	453	456	457	453	43
15°	428	431	435	438	432	121
25°	388	392	399	400	394	179
35°	336	341	349	351	346	210
45°	274	279	288	288	283	212
55°	208	212	218	214	211	186
65°	138	141	144	141	138	137
75°	69	70	72	69	68	73
85°	13	13	14	14	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.7	457.7	457.7	457.7	457.7
2.5°	454.2	455.6	457.2	457.8	454.1
5°	451.8	452.6	456.0	457.1	453.2
7.5°	447.9	449.1	452.4	452.9	449.2
10°	442.5	444.8	447.0	449.4	444.9
12.5°	435.7	438.8	442.5	442.9	439.5
15°	428.0	430.9	434.9	437.6	431.9
17.5°	419.4	422.2	427.4	427.9	424.5
20°	409.8	413.3	419.6	420.7	414.5
22.5°	399.0	403.6	408.8	409.9	405.4
25°	387.6	392.3	398.8	400.3	394.3
27.5°	375.7	380.2	387.5	388.6	383.5
30°	362.9	367.2	375.2	376.9	371.7
32.5°	349.9	354.2	363.1	364.5	359.5
35°	335.5	340.7	348.8	351.2	345.6
37.5°	320.8	325.9	335.1	337.3	331.2
40°	305.6	310.7	319.7	321.5	315.6
42.5°	290.1	295.1	304.7	305.0	300.2
45°	274.2	279.0	288.0	288.2	282.6
47.5°	258.1	263.0	271.0	270.1	264.7
50°	241.7	246.4	253.4	251.6	246.8
52.5°	224.9	229.4	236.0	233.1	228.5
55°	207.9	212.1	217.6	214.5	210.9
57.5°	190.8	195.0	199.2	196.1	193.0
60°	173.5	177.2	180.7	177.5	175.1
62.5°	155.9	159.1	162.1	159.0	156.9
65°	138.2	141.0	143.5	140.6	138.3
67.5°	120.6	122.9	125.2	122.3	119.8
70°	102.9	105.0	107.1	104.0	101.8
72.5°	85.5	87.3	89.2	86.2	84.3
75°	68.6	70.2	71.7	69.1	67.5
77.5°	52.4	53.7	54.8	53.1	51.6
80°	37.4	38.4	39.0	38.3	37.0
82.5°	24.0	24.8	25.1	25.0	24.1
85°	13.1	13.3	13.9	14.1	13.6
87.5°	5.1	5.4	5.5	6.0	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)